

# Fact Sheet



## For Draft/Proposed Renewal Permitting Action Under 45CSR30 and Title V of the Clean Air Act

Permit Number: **R30-02100001-2012**  
Application Received: **November 2, 2011**  
Plant Identification Number: **021-00001**  
Permittee: **Columbia Gas Transmission, LLC**  
Facility Name: **Glenville Compressor Station**  
Mailing Address: **1700 MacCorkle Avenue, SE**  
**Charleston, WV 25314**

*Issued: Draft/Proposed*

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Physical Location:	Truebada, Gilmer County, West Virginia
UTM Coordinates:	519.7 km Easting • 4,308.5 km Northing • Zone 17
Directions:	Traveling I-79 North, exit at Burnsville and turn left onto State Route 5. Proceed for approximately 12 miles to the station that is located on the left.

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### Facility Description

Glenville Compressor Station is a natural gas transmission facility covered by Standard Industrial Classification (SIC) Code 4922, North American Industrial Classification System (NAICS) Code 48621. The station has the potential to operate seven (7) days per week, twenty-four (24) hours per day. The station consists of five (5) 2000-hp natural gas fired reciprocating engines and 2 mercaptan tanks. On-site emergency equipment includes a natural gas fired 530-hp electric generator.

## Emissions Summary

Plantwide Emissions Summary [Tons per Year]		
Regulated Pollutants	Potential Emissions	2010 Actual Emissions
Carbon Monoxide (CO)	205.06	38.25
Nitrogen Oxides (NO <sub>x</sub> )	1,196.32	223.54
Particulate Matter (PM <sub>10</sub> )	14.15	2.64
Total Particulate Matter (TSP)	14.15	2.64
Sulfur Dioxide (SO <sub>2</sub> )	0.26	0.05
Volatile Organic Compounds (VOC)	60.31	24.13

*PM<sub>10</sub> is a component of TSP.*

Hazardous Air Pollutants	Potential Emissions	2010 Actual Emissions
Formaldehyde	20.38	3.8
Acetaldehyde	2.86	0
Other HAPs	1.37	0
Total HAPs	24.61	3.8

*Some of the above HAPs may be counted as PM or VOCs.*

## Title V Program Applicability Basis

This facility has the potential to emit 1,196.32 tons/yr of NO<sub>x</sub>, 205.06 tons/yr of CO and 20.38 tons/yr of Formaldehyde. Due to this facility's potential to emit over 100 tons per year of criteria pollutant and over 10 tons of individual HAP, Columbia Gas Transmission, LLC is required to have an operating permit pursuant to Title V of the Federal Clean Air Act as amended and 45CSR30.

## Legal and Factual Basis for Permit Conditions

The State and Federally-enforceable conditions of the Title V Operating Permits are based upon the requirements of the State of West Virginia Operating Permit Rule 45CSR30 for the purposes of Title V of the Federal Clean Air Act and the underlying applicable requirements in other state and federal rules.

This facility has been found to be subject to the following applicable rules:

Federal and State:	45CSR6	Open burning prohibited.
	45CSR11	Standby plans for emergency episodes.
	WV Code § 22-5-4 (a) (14)	The Secretary can request any pertinent information such as annual emission inventory reporting.
	45CSR30	Operating permit requirement.
	45CSR34	Emission standards for HAPs
	40 C.F.R. Part 61	Asbestos inspection and removal
	40 C.F.R. Part 63, Subpart ZZZZ	RICE MACT
	40 C.F.R. Part 82, Subpart F	Ozone depleting substances

State Only:	45CSR4	No objectionable odors.
	45CSR17	Particulate Fugitive

Each State and Federally-enforceable condition of the Title V Operating Permit references the specific relevant requirements of 45CSR30 or the applicable requirement upon which it is based. Any condition of the Title V permit that is enforceable by the State but is not Federally-enforceable is identified in the Title V permit as such.

The Secretary's authority to require standards under 40 C.F.R. Part 60 (NSPS), 40 C.F.R. Part 61 (NESHAPs), and 40 C.F.R. Part 63 (NESHAPs MACT) is provided in West Virginia Code §§ 22-5-1 *et seq.*, 45CSR16, 45CSR34 and 45CSR30.

### Active Permits/Consent Orders

Permit or Consent Order Number	Date of Issuance	Permit Determinations or Amendments That Affect the Permit ( <i>if any</i> )
None		

Conditions from this facility's Rule 13 permit(s) governing construction-related specifications and timing requirements will not be included in the Title V Operating Permit but will remain independently enforceable under the applicable Rule 13 permit(s). All other conditions from this facility's Rule 13 permit(s) governing the source's operation and compliance have been incorporated into this Title V permit in accordance with the "General Requirement Comparison Table B" which may be downloaded from DAQ's website.

### Determinations and Justifications

Changes from the existing registration:

- a. 0.14 MMBtu/hr Gas Heater (HTR1) is eliminated.
- b. 80 HP engine (013A2) is eliminated.
- c. 250 HP Waukesha F11GSI engine (013G1) was replaced by a 530 HP Waukesha VGFH24GL emergency generator (013G2). According to Permit Determination No. PD08-025, no 45CSR13 permit was required.
- d. Flare FLLP1 to control odor from the mercaptan tanks is eliminated. The truck that fills the mercaptan tank has a vapor recovery system. Flare requirements in "Other Specific Requirements" section of existing registration are no longer applicable and were not included.

Below is a discussion of applicable rules:

1. 45CSR4 – This facility is subject to 45CSR4 according to sections 3.1.4 & 3.4.3 of the permit.
2. 45CSR17 - *To Prevent and Control Particulate Matter Air Pollution from Materials Handling, Preparation, Storage and Other Sources of Fugitive Particulate Matter.*

This rule sets a standard for fugitive particulate matter, which is not to be discharged beyond the facility boundary lines which causes statutory air pollution.

Compliance with this standard will be met by the facility by submitting a control plan if the Director finds the facility in violation of this rule.

3. 40 C.F.R. Part 63 Subpart ZZZZ:

The facility is subject to this subpart because the facility owns and operates a stationary RICE at a major source of HAP emissions.

Engines 01301, 01302, 01305, 01306 & 01307 are existing non-emergency SI 2SLB engines > 500 HP located at a major source of HAPs. According to 40 C.F.R. § 63.6595(a)(1) these engines have to comply with 40 C.F.R. Part 63 Subpart ZZZZ no later than June 15, 2007. According to 40 C.F.R. § 63.6590(b)(3)(i) and C.F.R. § 63.6600(c) these engines do not have any requirements under 40 C.F.R. Part 63 Subpart ZZZZ.

Engine 013G2 is a new emergency SI 4SRB engine > 500 HP located at a major source of HAPs. According to 40 C.F.R. § 63.6590(a)(2), a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002. Engine 013G2 was constructed in 2008. Engine 013G2 is subject to the following sections of 40 C.F.R. Part 63 Subpart ZZZZ -

Compliance date is - Upon Startup.

Emission Limitations: No Requirements

Operating Limitations: No Requirements

Fuel Requirements: No Requirements

Performance Tests: No Requirements

Monitoring, Installation, Collection, Operation and Maintenance Requirements: No Requirements

Initial Compliance: No Requirements

Continuous Compliance: 40 C.F.R. §§63.6605, 63.6640(f)(1)

Notification Requirements: 40 C.F.R. §63.6645(f)

Recordkeeping Requirements: No Requirements

Reporting Requirements: No Requirements

General Provisions (40 CFR part 63) – No [except as specified in 40 C.F.R. §63.6645(f)].

### **Non-Applicability Determinations**

The following requirements have been determined not to be applicable to the subject facility due to the following:

1. 45CSR2 – This rule is not applicable to the facility because there are no Indirect Heat Exchangers.
2. 45CSR6 – This facility does not have any incinerator (or flare); hence this rule is not applicable to this facility.
3. 45CSR10 - The director has determined that 45CSR10 does not apply to engines; the engines do not meet the definition of a fuel burning unit in 45CSR§10-2.8 or a manufacturing process in 45CSR§2-2.11.
4. 40 C.F.R. Part 60 Subpart Kb: This subpart does not apply to this facility because all the tanks at this facility are less than 75 cubic meters(m<sup>3</sup>) capacity.
5. 40 C.F.R. Part 60 Subpart Dc

This subpart does not apply to this facility because there is no steam generating unit at this facility.

6. 40 C.F.R. Part 60 Subpart JJJJ

Engines E01, E02, E05, E06 & E07 were installed from 1966 to 1971; hence according to paragraph (a)(4) of 40 C.F.R § 60.4230 these engines are not subject to this rule. Emergency engine 013G2 was installed in 2008; hence according to paragraph (a)(4)(iv) of 40 C.F.R § 60.4230 this engine is not subject to this rule.

7. 40 C.F.R. Part 60 Subpart IIII

The provisions of this subpart are not applicable to this facility because there are no stationary compression ignition (CI) internal combustion engines (ICE) at this facility.

8. 40 C.F.R. Part 60 Subpart GG

The provisions of this subpart are not applicable to this facility because the facility does not operate a stationary combustion turbine.

9. 40 C.F.R. Part 60 Subpart KKKK

The provisions of this subpart are not applicable to this facility because the facility does not operate a stationary combustion turbine.

10. 40 C.F.R. Part 63 Subpart YYYY:

The provisions of this subpart are not applicable to this facility because the facility does not operate a stationary combustion turbine.

11. 40 C.F.R. Part 63 Subpart HH – This rule is not applicable to this facility because this facility is not an oil and gas production facility.

12. 40 C.F.R. Part 63 Subpart HHH – This facility does not have a glycol dehydration unit; hence according to 40 C.F.R. §63.1270 (c), this facility is not subject to this rule.

13. 40 C.F.R. Part 63 Subpart DDDDD - This rule is not applicable to this facility because this facility does not own or operate a boiler or process heater.

14. 40 C.F.R. Part 63 Subpart JJJJJ - This rule is not applicable to this facility because this facility does not own or operate a boiler.

15. 40 CFR 64 - No facility emission sources have add-on controls; therefore, in accordance with 40 C.F.R § 64.2(a), CAM is not applicable to this facility.

There are no Greenhouse Gas Clean Air Act requirements for this facility because the facility has not made any changes that triggered a PSD permit modification.

### **Request for Variances or Alternatives**

N/A

### **Insignificant Activities**

Insignificant emission unit(s) and activities are identified in the Title V application.

### **Comment Period**

Beginning Date: August 30, 2012

Ending Date: October 1, 2012

All written comments should be addressed to the following individual and office:

U.K.Bachhawat  
Title V Permit Writer  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

### **Procedure for Requesting Public Hearing**

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing. The Secretary shall grant such a request for a hearing if he/she concludes that a public hearing is appropriate. Any public hearing shall be held in the general area in which the facility is located.

### **Point of Contact**

U.K.Bachhawat  
West Virginia Department of Environmental Protection  
Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: 304/926-0499 ext. 1256 • Fax: 304/926-0478

### **Response to Comments (Statement of Basis)**

Not applicable.